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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/765,547	01/26/2004	Seung-Hak Choi	YPL-0077	1634	
7590 09/21/2006			EXAM	EXAMINER	
Soonja Bae Cantor Colburn LLP			ZHOU, SHUBO		
			ART UNIT	PAPER NUMBER	
55 Griffin Road South			ARTONII	TATER NUMBER	
Bloomfield, CT 06002			1631		
			DATE MAILED: 09/21/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/765,547	CHOI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Shubo (Joe) Zhou	1631				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHIGHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	N. lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 02 Au	Responsive to communication(s) filed on <u>02 August 2006</u> .					
	action is non-final.					
,	,—					
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
·	•					
Disposition of Claims						
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-11</u> is/are rejected.						
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>26 January 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
, , ,	,- <u> </u>					
_ , , , ,						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
						* See the attached detailed Office action for a list of the certified copies not received.
		- .				
Attachment(s)		(070 440)				
Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date <u>1/26/04</u> .	6)					

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DETAILED ACTION

Election/Amendments

Applicants' election, with traverse, of Group I (claims 1-8) in the response filed 8/2/06 is acknowledged. Because applicant merely restated the examiner's position in the previous Office action but did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

However, since claim 9 is amended to fall into the invention of group I, it along with dependent claims 10-11 is examined together with claims 1-8.

Information Disclosure Statement

The Information Disclosure Statement filed 1/26/04 has been entered and reference therein has been considered. Initialed copy of the form PTO-1449 is enclosed herewith.

Specification

The specification is objected to because of the following:

The first paragraph of the specification refers to a Korean Patent Application from which priority is claimed. It is noted, however, that the filing date of this foreign application stated therein, January 17, 2003, appears to be incorrect. The filing date of this foreign application stated in the Declaration filed 1/26/04 and that appeared on the certified copy of the priority document filed 1/26/04 is January 27, 2003.

Appropriate correction is required.

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Claim Rejections-35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-11 are rejected under 35 U.S.C. § 102(b) as being anticipated by Osborne et al. (IDS document: Artificial Intelligence System for Genetic Analysis, WO 01/16860 A2, March 8, 2001).

The claims are drawn to a server-client network for genotyping analysis on a target sample. The network comprises a server including databases required for the genotyping analysis and providing the databases to a client, and the client receiving the results of a biochip test on the target sample with reference to the databases provided from the server.

Osborne et al. disclose a network system and a method for genetic analysis. The network system comprises a server that includes multiple databases required for the genetic analysis, which are provided to client that receives the results of a microarray analysis and performs the genetic analysis. See at least Fig. 1. and pages 4-5. The genetic analyses include analysis of genomic mutations (see page 12, lines 30-31), which is interpreted as a type of genotyping. Osborne et al. disclose that the system comprises central data processing facilities and user facilities and that "each user facility may include an optical scanning system to collect hybridization signals from a nucleic acid array, an image processing system to convert the optical data into a set of hybridization parameters, a connection to a data network, and a user interface to display, manipulate, search, and analyzed hybridization information." See page 5. The system comprises various types of users at different tiers including remote users/local users, web users/internet users, diagnostic users including diagnostic master users, and browser users

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(see pages 10-12), any of which is interpreted as being part of the client as recited in the instant claims. Since the user facilities (interpreted as client) and the central data processing facilities (interpreted as server) comprising the databases are linked by encrypted network connections (see page 5), it is interpreted that the databases in the server are provided to the client. Furthermore, Osborne et al. disclose that "users perform statistical tests on cataloged hybridization profiles stored in the central data processing facility" and "a web user or browser user may search the artificial intelligence system and view statistical summaries of the databases" and "use the database to search, correlate, manipulate, and display existing data." See page 15.

With regard to claim 2, the databases in the server disclosed by Osborne include database for chip ID and pattern/lay-out, analysis algorithm and a quality control database. See at least Fig. 1 and pages 5-7, 10, 12-14, and 27. See also pages 19-22 for rules/algorithm for analysis in the system.

With regard to claims 3-4, the server of the system by Osborne et al. comprises database that is built up from statistical data for the results of test on a number of patients and references samples using microarrays. Osborne et al. disclose that the database server stores hybridization profiles, patient profiles, reference information, clinical information associated with hybridization profiles, and statistical summaries. See page 5. Osborne et al. further disclose that "hybridization profiles collected by remote and/or local facilities include clinical observations or other information associated with each profile, and the profile with associated observations is added to the central database." See page 6. Osborne et al. also state that "the databases of the instant invention continually mature and develop into more and more complex systems as information from public and private sources continues to be added to the existing database." See pages 13 and 15. Thus, the databases are being built up while the users use the system.

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With regard to claim 5, in the system disclosed by Osborne et al., the users/clients comprise optical scanning system and identifier recognizer. See at least Fig. 1 and pages 11 and 16.

With regard to claims 6-8, which include limitations that the client comprises an engine for performing a series of logical functions, in the system disclosed by Osborne et al., the client comprises an engine or means for performing a function of detecting the identifier of the biochip (see Fig. 1 and the "application ID on at least page 16, array ID and array location ID on at least pages 26-27, and sample ID, patient ID, etc. on pages 28-29). Client can select and download data/database based on application ID, etc., and perform genotyping analysis. See the diagnostic architecture listed on pages 16-18. Furthermore, with regard to claim 8, the method of Osborne et al. allows client to perform the genetic analysis including reading results via scanning system, (see pages 16-18), linking results with spot position information of the chip, etc. (see pages 13-14, where the database queries include chip ID genetic pattern, pattern match, result output, etc. and page 15). Users can perform functions such as correlating they hybridization signals of one or more probes and creating test hypothesis relating to a particular pathological or physiological condition, using the server databases to search, correlate, manipulate and display existing data, etc. See page 15.

With regard to claims 9-11, which are drawn to computer readable medium comprising computer executable instructions for executing the method steps and functions performed by the system above, given that the system for performing the functions and method steps as set forth above is a web-based computer systems including server and client, it would be readily recognized by one skilled in the art that the system inherently comprises computer readable medium containing computer executable instructions for performing the functions.

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Conclusion

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No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shubo (Joe) Zhou, whose telephone number is 571-272-0724. The examiner can normally be reached Monday-Friday from 8 A.M. to 4 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang, can be reached on 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Shubo (Joe) Zhou, Ph.D. Shub Allo 9/14/06